## In the Claims

1. (Currently Amended) A high-stiffness high-strength thin steel sheet comprising C: 0.02 - 0.15%, Si: not more than 1.5%, Mn: 1.5-4.0%, P: not more than 0.05%, S: not more than 0.01%, Al: not more than 1.5%, N: not more than 0.01%, B: 0.0005 - 0.0030% and Nb: 0.02-0.40% as mass%, provided that C, N and Nb contents satisfy the relationships of the following equations (1) and (2):

$$0.01 \le C + (12/14) \times N - (12/92.9) \times Nb \le 0.06$$
 (1)

$$N \le (14/92.9) \times (Nb-0.01)$$
 (2)

and the remainder being substantially iron and inevitable impurities, and having a texture comprising a ferrite phase as a main phase and having a martensite phase at an area ratio of not less than 1%, and having a tensile strength of not less than 590 MPa and a Young's modulus of not less than 225 GPa.

2. (Original) A high-stiffness high-strength thin steel sheet according to claim 1, which further contains one or two of Ti: 0.01 - 0.50% and V: 0.01 - 0.50% as mass% in addition to the above composition and satisfy the relationships of the following equations (3) and (4) instead of the equations (1) and (2):

$$0.01 \le C + (12/14) \times N^* - (12/92.9)$$
  
  $\times Nb - (12/47.9) \times Ti^* - (12/50.9) \times V \le 0.06$  (3)

$$N^* \le (14/92.9) \times (Nb-0.01) \tag{4}$$

provided that N\* in the equations (3) and (4) is N\* = N-(14/47.9)×Ti at N-(14/47.9)×Ti > 0 and N\* = 0 at N-(14/47.9)×Ti  $\leq$  0, and Ti\* in the equation (3) is Ti\* = Ti-(47.9/14)×N-(47.9/32.1)×S at Ti-(47.9/14)×N-(47.9/32.1)×S  $\geq$  0 and Ti\* = 0 at Ti-(47.9/14)×N-(47.9/32.1)×S  $\leq$  0.

- 3. (Currently Amended) A high-stiffness high-strength thin steel sheet according to claim 1 or 2, which further contains one or more of Cr: 0.1 1.0%, Ni: 0.1 1.0%, Mo: 0.1 1.0%[[,]] and Cu: 0.1 2.0% and B: 0.0005 0.0030% as mass% in addition to the above composition.
- 4. (Currently Amended) A method for producing a high-stiffness high-strength thin steel sheet comprising subjecting a starting material of steel comprising C: 0.02 0.15%, Si: not more than 1.5%, Mn: 1.5-4.0%, P: not more than 0.05%, S: not more than 0.01%, Al: not more than 1.5%, N: not more than 0.01%, B: 0.0005 0.0030% and Nb: 0.02-0.40% as mass%, provided that C, N and Nb contents satisfy the relationships of the following equations (1) and (2):

$$0.01 \le C + (12/14) \times N - (12/92.9) \times Nb \le 0.06$$
 (1)

$$N \le (14/92.9) \times (Nb-0.01)$$
 (2)

to a hot rolling step under conditions that a total rolling reduction below 950°C is not less than 30% and a finish rolling is terminated at Ar<sub>3</sub>-900°C, coiling the hot rolled sheet below 650°C, pickling, subjecting to a cold rolling at a rolling reduction of not less than 50%, raising a temperature to 780 - 900°C at a temperature rising rate from 500°C of 1 - 40°C/s to conduct soaking, and then cooling at a cooling rate up to 500°C of not less than 5°C/s to conduct annealing.

5. (Original) A method for producing a high-stiffness high-strength thin steel sheet according to claim 4, wherein the starting material of steel further contains one or two of Ti: 0.01 - 0.50% and V: 0.01 - 0.50% as mass% in addition to the above composition and satisfies the relationships of the following equations (3) and (4) instead of the equations (1) and (2):

$$0.01 \le C + (12/14) \times N^* - (12/92.9)$$

 $\times Nb - (12/47.9) \times Ti^* - (12/50.9) \times V \le 0.06$  (3)

 $N^* \le (14/92.9) \times (Nb-0.01) \tag{4}$ 

provided that N\* in the equations (3) and (4) is N\* = N-(14/47.9)×Ti at N-(14/47.9)×Ti > 0 and N\* = 0 at N-(14/47.9)×Ti  $\leq$  0, and Ti\* in the equation (3) is Ti\* = Ti-(47.9/14)×N-(47.9/32.1)×S at Ti-(47.9/14)×N-(47.9/32.1)×S  $\leq$  0 and Ti\* = 0 at Ti-(47.9/14)×N-(47.9/32.1)×S  $\leq$  0.

6. (Currently Amended) A method for producing a high-stiffness high-strength thin steel sheet according to claim 4 or 5, wherein the staring material of steel further contains one or more of Cr: 0.1 - 1.0%, Ni: 0.1 - 1.0%, Mo: 0.1 - 1.0%[[,]] and Cu: 0.1 - 2.0% and B: 0.0005—0.0030% as mass% in addition to the above composition.